



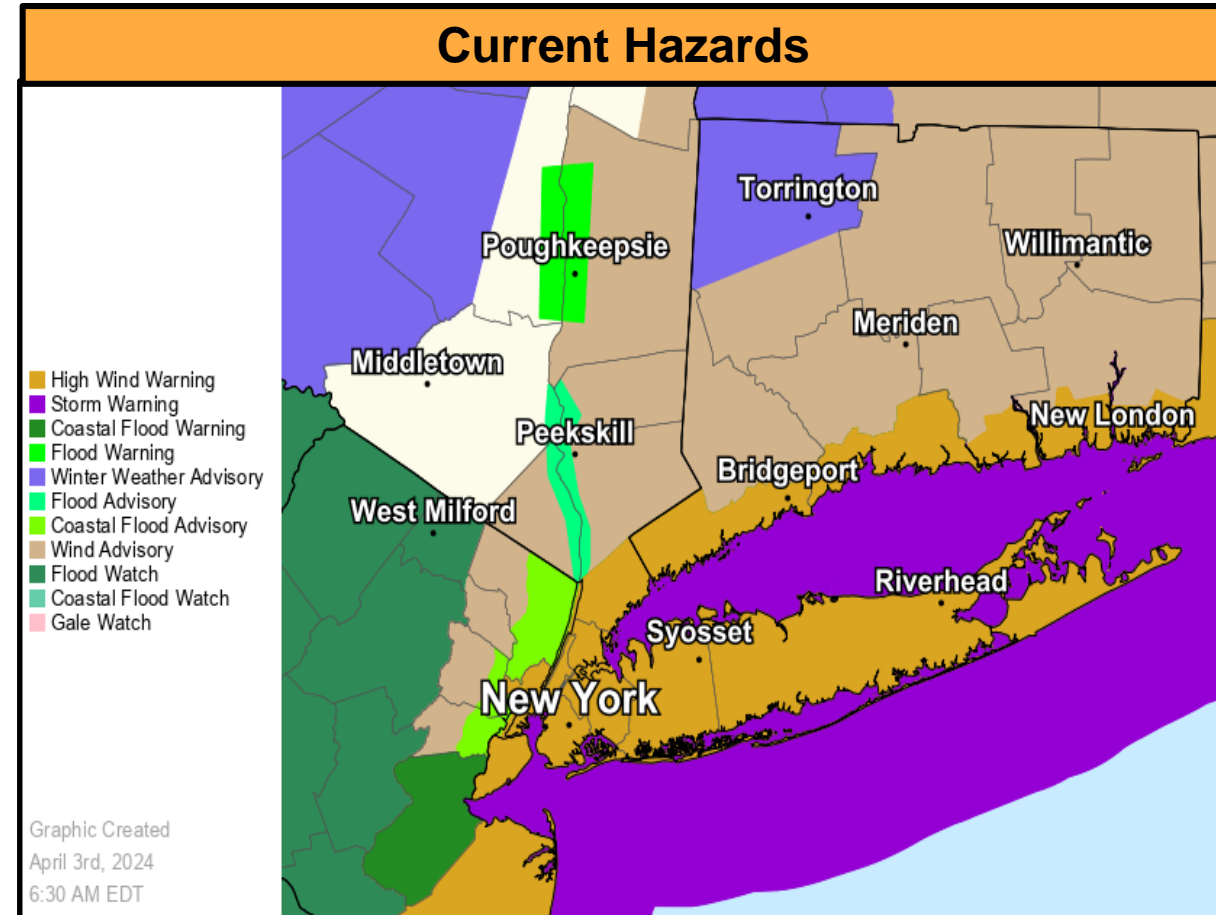
# Major Storm System Today into Tomorrow

April 3, 2024  
6:31 AM

Decision Support Briefing #2

## ...What Changed?...

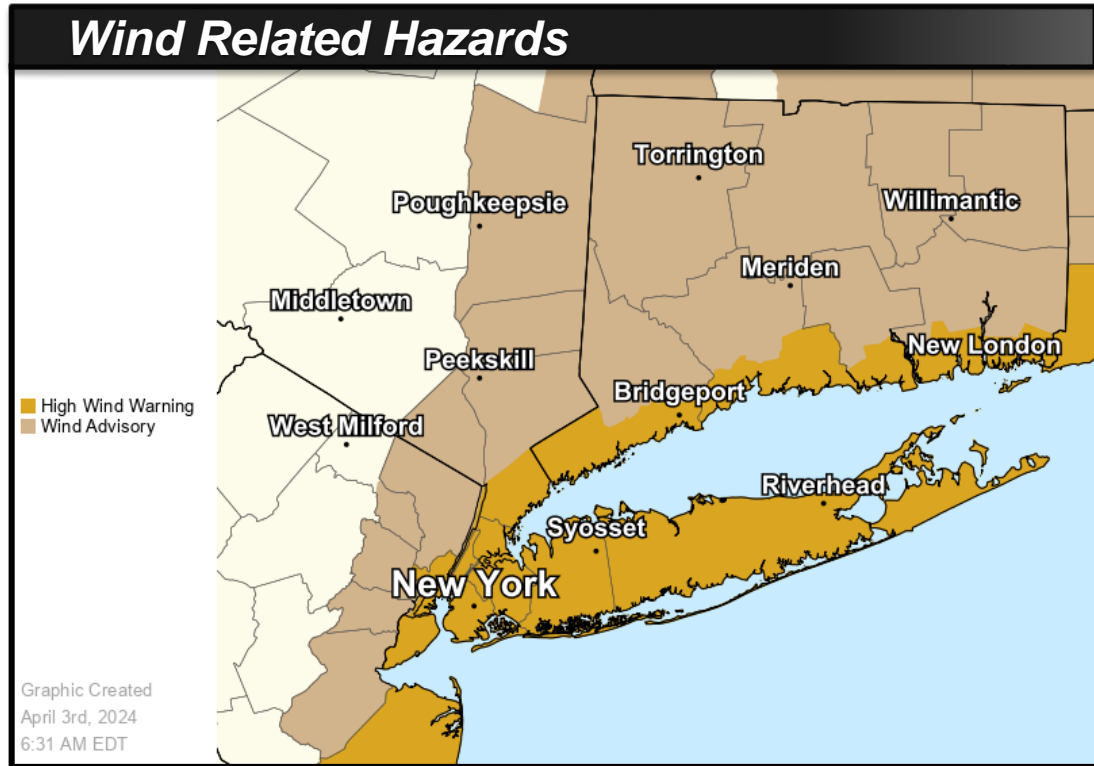
- A High Wind Warning has been issued for NYC, Long Island, NE NJ, Southern Westchester, and Coastal CT starting this morning.
- Precipitation amounts have increased. A Flood Watch has been issued starting this afternoon for NYC, Long Island and NE NJ.





## Key Messages...

- ✓ **Strong to damaging winds expected today through early Thursday, with gusts up to 60 mph expected along the coast.**
- ✓ **2 to 3 inches of rainfall, locally 3 ½" through late tonight. Widespread minor urban, poor drainage and riverine flooding this afternoon into tonight, with a localized flash flood threat.**
- ✓ **Widespread coastal flooding threat during today/tonight's and early Thu AM high tides. Locally major flooding (3+ ft of inundation above ground) possible for vulnerable communities along the southern and eastern bays of Long Island with the early Thu AM high tide.**
- ✓ **Scattered areas of dune erosion and localized overwashes likely during the times of high tide this afternoon into Thu AM. Significant beach erosion and flooding expected.**
- ✓ **Storm conditions on all waters through tonight.**
- ✓ **A light accumulation of sleet and snow possible for higher terrain of Orange County late tonight into Thu AM.**



## Hazards and Impacts:

### ✓ Hazards:

- ✓ **High Wind Warning** for Long Island, NYC/NJ metro, and Coastal Westchester and CT
- ✓ **Wind Advisory** for interior portions of NE NJ, LoHud, and S CT.
- ✓ Storm Warnings for all waters through tonight.

### ✓ Peak Winds:

- ✓ **Along the Coast, including NYC:** Easterly winds 25-40 mph with gusts to 60 mph this afternoon through tonight.
  - ✓ **Impacts:** Damaging winds will blow down numerous tree limbs, as well as scattered trees and power lines. Travel will be difficult, especially for high profile vehicles.
- ✓ **Across Interior:** Easterly winds 20-30 with gusts to 55 mph for the interior today into early Thursday.
  - ✓ **Impacts:** Strong winds will blow down scattered tree limbs, as well as a few trees and power lines could be downed.

- ✓ **Timing:** Winds will gradually subside early Thu before shifting northwest Thu AM.

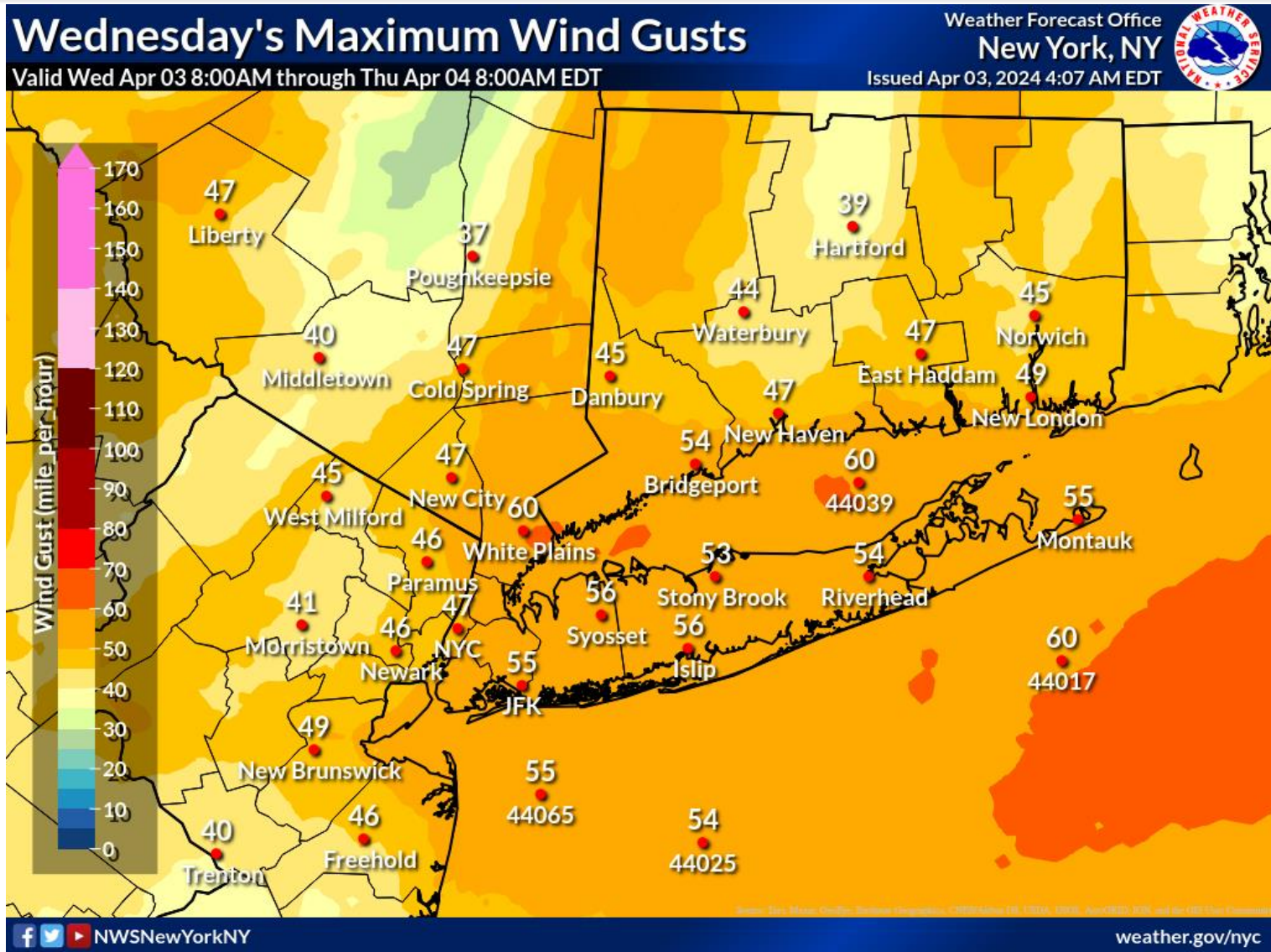




# Today's Maximum Wind Gust Forecast

April 3, 2024  
6:31 AM

Decision Support Briefing #2



National Oceanic and Atmospheric Administration  
U.S. Department of Commerce

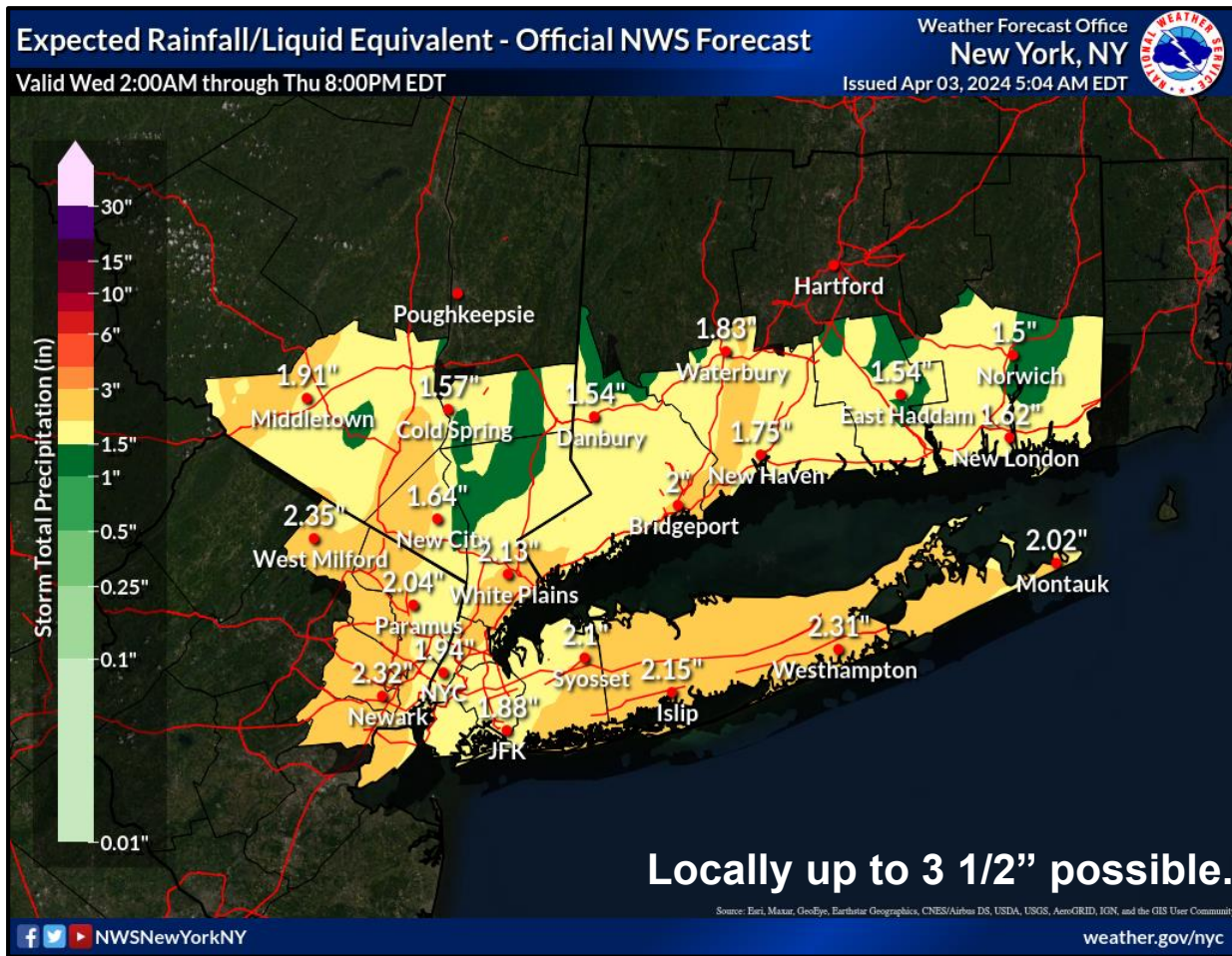
National Weather Service  
New York, NY



# Heavy Rain and Flood Potential Today/Tonight

April 3, 2024  
6:31 AM

Decision Support Briefing #2



## Hazards:

- ✓ **Rainfall Rates:** 1/4" to 1/2"/hr rates at times. Potential for brief period of 3/4" to 1"/hr rates this evening with heavy downpours and possible embedded thunderstorms.

## Impacts:

- ✓ **Urban/Poor Drainage Flooding:** Widespread minor flooding of urban, poor drainage, and low-lying areas is likely. Localized flash flooding threat of shoreline and riverine roads this afternoon/evening with combined heavy rainfall, runoff and high tides.
- ✓ **River Flooding:** Minor flooding likely along several quick responding small rivers and streams across NE NJ, Rockland and Westchester NY, and S CT. Minimal or no property damage, but possibly some public threat (e.g., inundation of roads). Low and isolated probability (< 20%) for moderate river flooding at this time.

## Timing:

- ✓ Light rain this AM becomes moderate to heavy this afternoon into tonight. Rain will taper off early Thursday morning.





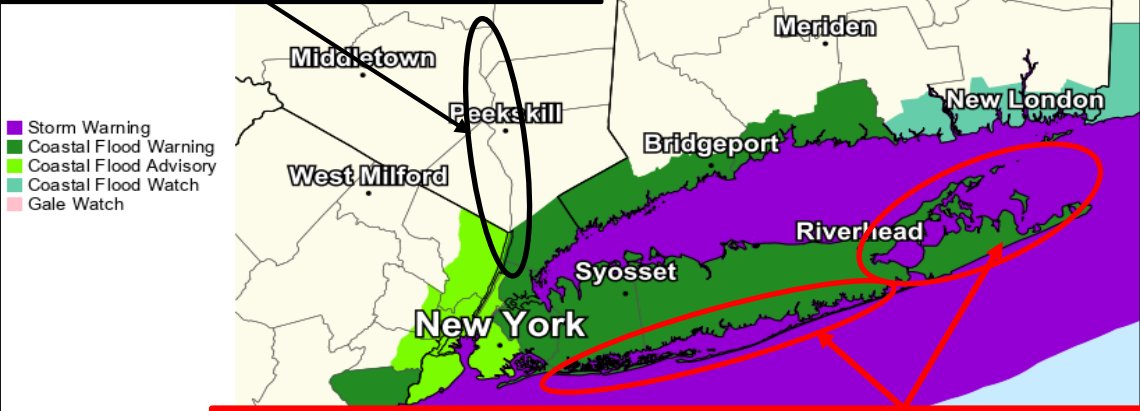
# Widespread Moderate Coastal Flooding This Afternoon/Thursday

April 3, 2024  
6:31 AM

Decision Support Briefing #2

## Marine / Coastal Hazards

Minor to locally moderate surge impacts expected up the Hudson River this aft into Thu AM, as well as other tidally affected rivers.



Graphic Created  
April 3rd, 2024  
6:31 AM EDT

**Greatest threat areas for locally major coastal flooding during early Thu AM high tide (inundation of 3 ft above ground level).**

For the latest coastal flood forecasts (hydrographs and tables) and the tools to visualize the potential coastal impacts (zoomable potential inundation map, impact catalogs, climatology, etc.) in your area of concern please go to the [NWS New York, NY Coastal Flooding Page](#)

## Coastal Flood Hazards and Impacts:

- **Great South Bay and Twin Forks communities (Coastal Flood Warning)-** Widespread moderate coastal flooding (2 to 3 ft inundation above ground) expected during both this aft/eve and early Thu AM high tides, with **locally major flooding (3+ ft inundation above ground) possible for the early Thu AM high tide.**
- **Western LI Sound communities (Coastal Flood Warning) -** Moderate coastal flooding (2 to 2 ½ ft inundation above ground) expected during this aft/eve and early Thu AM high tides.
- **Rest of the coast, including tidally affected rivers of NE NJ and LoHud:** Widespread minor coastal flooding (1-2 ft inundation above ground) likely during both this aft/eve high tide, with widespread minor to moderate flooding likely for the early Thu AM high tides.

## Shoreline Hazards and Impacts:

- **Oceanfront** – 6 to 10 ft of breaking surf will cause scattered dune erosion and localized overwashes during the times of high tide this aft into Thu AM. Widespread beach flooding and erosion are expected as well.
- **Western Long Island Sound and Twin Forks of LI** – Breaking waves of 3 to 7 ft during this evening high tide will result in beach erosion and localized damage to shoreline structures. Wave splashover may locally exacerbate flooding of shoreline roads and properties.




## Forecast Challenges:

- The combination of heavy rain and elevated water levels this afternoon into evening may cause localized flash flooding along some shoreline roads and properties.
- The coverage and magnitude of flooding late tonight into early Thursday morning will be dependent on track of low pressure, and timing of wind shift from easterly gales to northwest gales.



# Coastal Flooding Thresholds



	Minor (CF Advisory)	Moderate (CF Warning)	Major ( <b>Warning</b> )
Picture	 Westport	 Lindenhurst	 New Haven
Hazard	<ul style="list-style-type: none"> <li>• <b>Low threat of property damage...</b>and no direct threat to life.</li> <li>• <b>1 to 2 ft of inundation</b> in shoreline and vulnerable areas.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Elevated threat of property damage...</b>with a risk to life if one places themselves in unnecessary danger.</li> <li>• <b>2 to 3 ft of inundation</b> in shoreline and vulnerable areas.</li> <li>• Minor to no inundation of surrounding coastal communities.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Significant threat to life and property.</b></li> <li>• <b>3-5+ ft of inundation</b> in shoreline and other vulnerable areas.</li> <li>• Minor to moderate inundation (1 to 3 ft) of surrounding coastal communities that rarely experience coastal flooding.</li> </ul>
Impact	<ul style="list-style-type: none"> <li>• A few shoreline and vulnerable roadways and adjacent properties will experience shallow flooding.</li> </ul>	<ul style="list-style-type: none"> <li>• Several shoreline and vulnerable area home and businesses will experience water inside.</li> <li>• Several low-lying coastal and shoreline roads will be closed.</li> <li>• A few cars may take on water or even be destroyed.</li> </ul>	<ul style="list-style-type: none"> <li>• Evacuations will be necessary for the most vulnerable shoreline and coastal areas.</li> <li>• Many coastal communities will experience damage...with some shoreline and flood prone homes and businesses being destroyed.</li> <li>• Many cars will likely be submerged or washed away.</li> <li>• Several sections of nearshore roads and escape routes will be impassable and a few could be washed out.</li> <li>• Flood waters may extend well inland in low lying areas.</li> </ul>





# Coastal Flooding

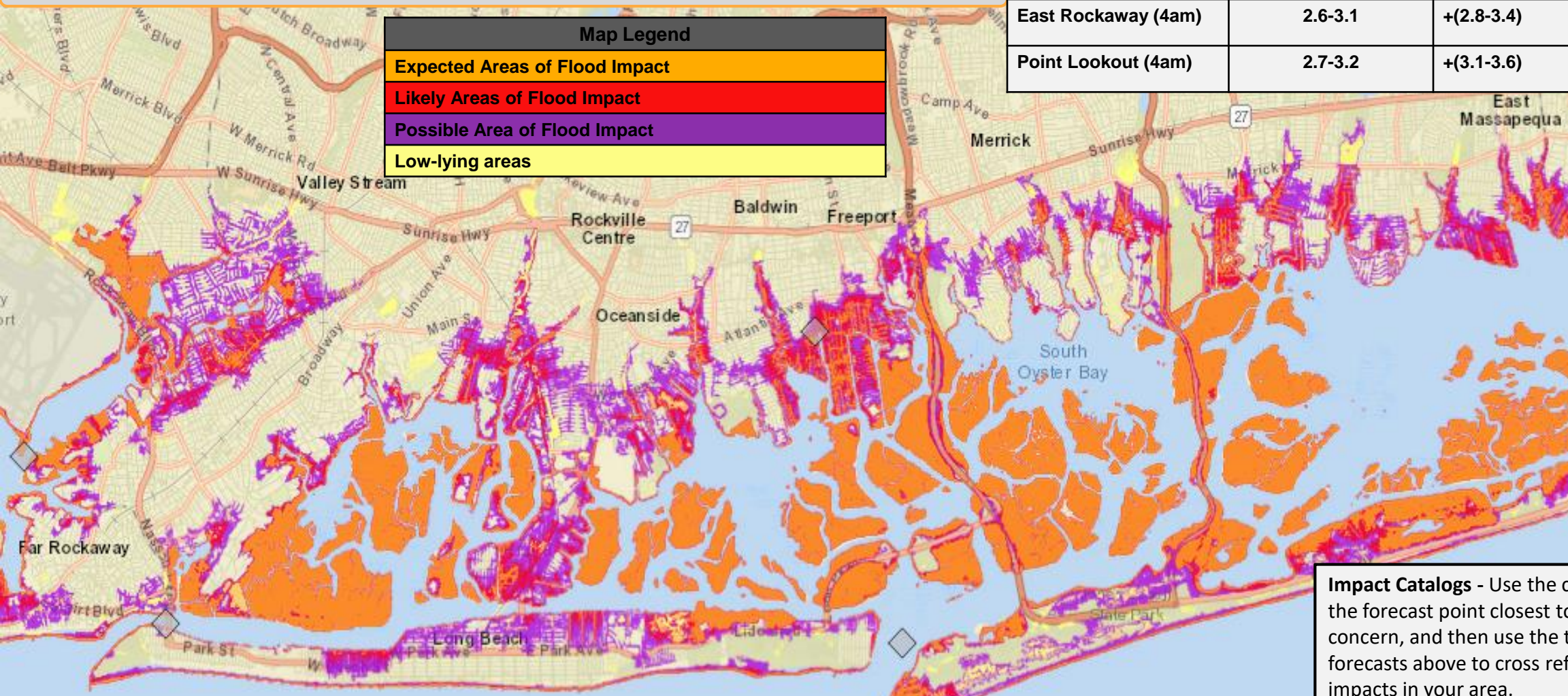
April 3, 2024  
6:31 AM

## Potential Major Flood Impact Areas Thu am

The map below shows the potential extent of flood impact (water above ground) during the late tonight/Thu AM high tides. Flooding may be as deep as 3 ft in spots.

Forecast Location (High tide Time)	Peak Water Level (ft) (MHHW)	Departure at high tide (ft)	Flood Impact
Freeport (5am)	2.7-3.2	+(4.0-4.5)	Major
East Rockaway (4am)	2.6-3.1	+(2.8-3.4)	Mod-Maj
Point Lookout (4am)	2.7-3.2	+(3.1-3.6)	Mod-Maj

Map Legend
Expected Areas of Flood Impact
Likely Areas of Flood Impact
Possible Area of Flood Impact
Low-lying areas



**Impact Catalogs** - Use the catalog below for the forecast point closest to your area of concern, and then use the total water level forecasts above to cross reference potential impacts in your area.

- [Freeport](#)
- [East Rockaway](#)
- [Point Lookout](#)

For the latest coastal flood forecasts (hydrographs and tables) and the tools to visualize the potential coastal impacts (zoomable potential flood impact map, impact catalogs, climatology, etc.) in your area of concern please go to the [NWS New York, NY Coastal Flooding Page](#)





# Coastal Flooding

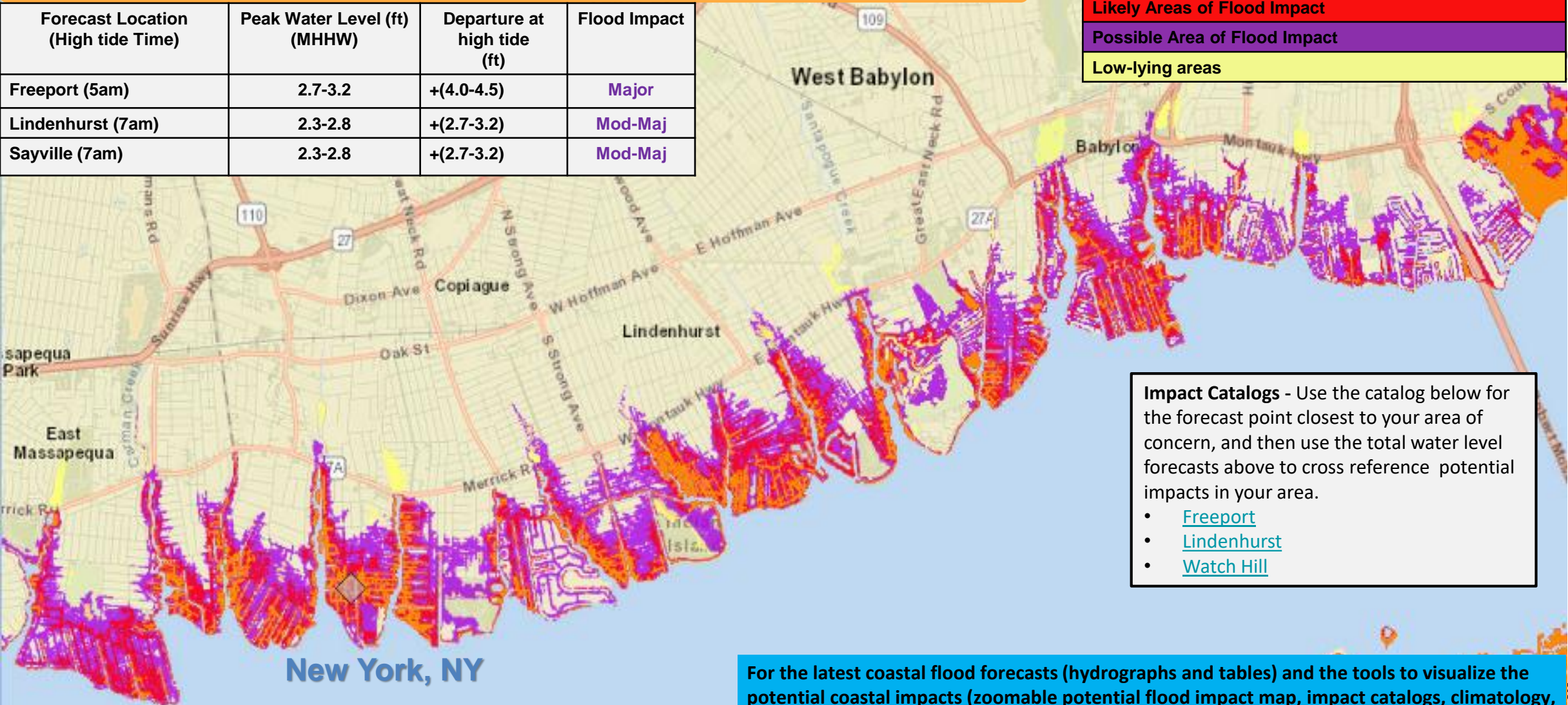
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## Potential Major Flood Impact Areas Thu Am

The map below shows the potential extent of flood impact (water above ground) during the Thu AM high tides. Flooding may be as deep as 2 to 3 ft in spots.

Forecast Location (High tide Time)	Peak Water Level (ft) (MHHW)	Departure at high tide (ft)	Flood Impact
Freeport (5am)	2.7-3.2	+(4.0-4.5)	Major
Lindenhurst (7am)	2.3-2.8	+(2.7-3.2)	Mod-Maj
Sayville (7am)	2.3-2.8	+(2.7-3.2)	Mod-Maj

Map Legend
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- [Freeport](#)
- [Lindenhurst](#)
- [Watch Hill](#)

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# Coastal Flooding

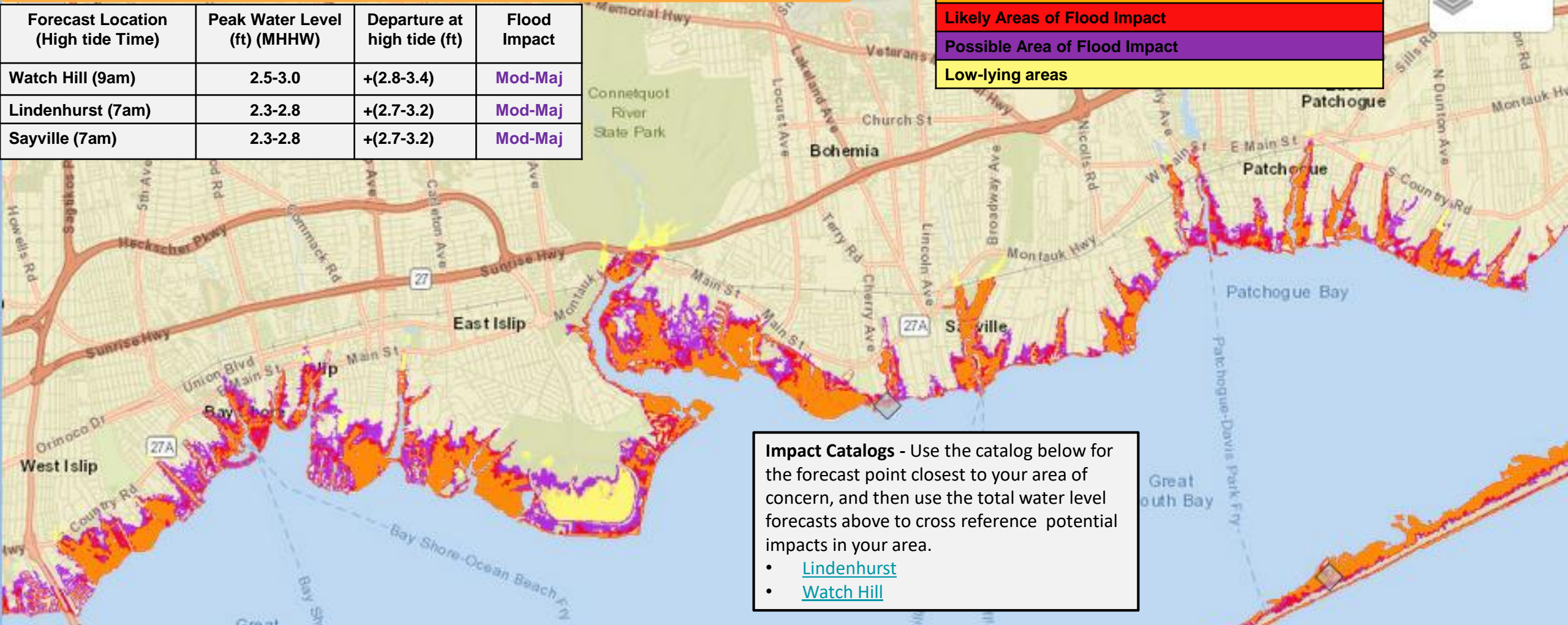
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Watch Hill (9am)	2.5-3.0	+(2.8-3.4)	Mod-Maj
Lindenhurst (7am)	2.3-2.8	+(2.7-3.2)	Mod-Maj
Sayville (7am)	2.3-2.8	+(2.7-3.2)	Mod-Maj

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- [Lindenhurst](#)
- [Watch Hill](#)

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# Coastal Flooding

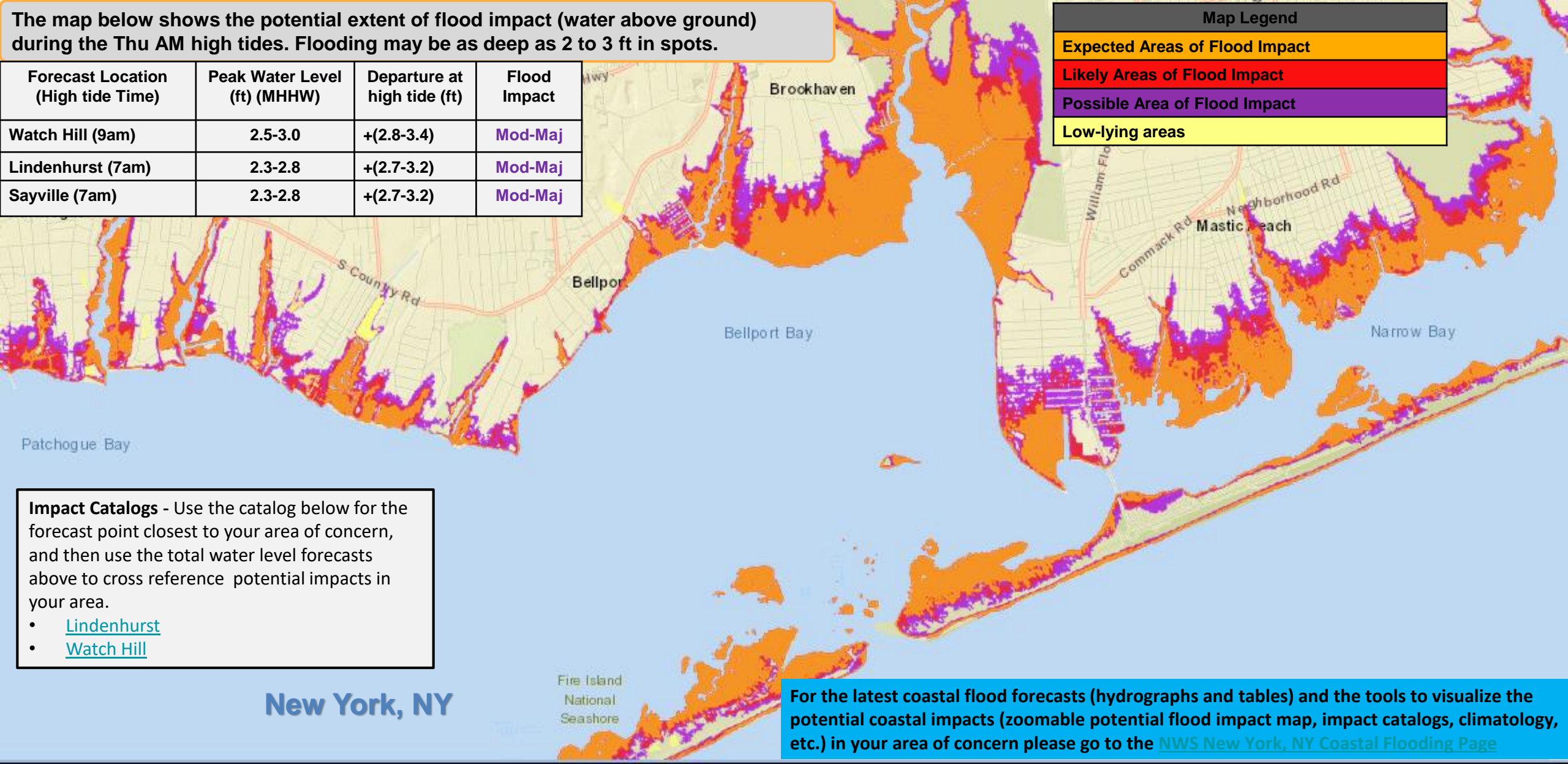
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- [Lindenhurst](#)
- [Watch Hill](#)

New York, NY

For the latest coastal flood forecasts (hydrographs and tables) and the tools to visualize the potential coastal impacts (zoomable potential flood impact map, impact catalogs, climatology, etc.) in your area of concern please go to the [NWS New York, NY Coastal Flooding Page](#)





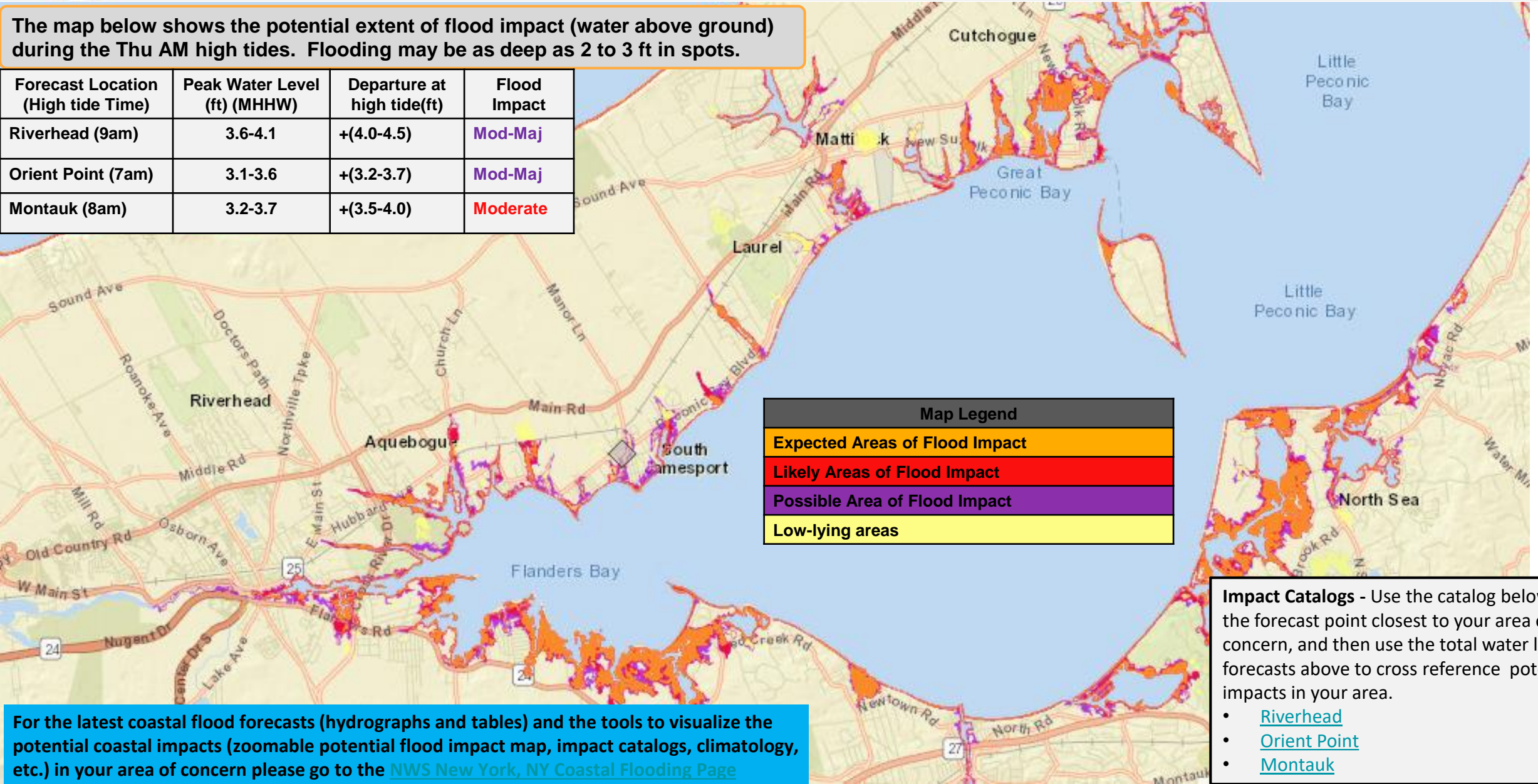
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Riverhead (9am)	3.6-4.1	+(4.0-4.5)	Mod-Maj
Orient Point (7am)	3.1-3.6	+(3.2-3.7)	Mod-Maj
Montauk (8am)	3.2-3.7	+(3.5-4.0)	Moderate



Map Legend
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**Impact Catalogs** - Use the catalog below for the forecast point closest to your area of concern, and then use the total water level forecasts above to cross reference potential impacts in your area.

- [Riverhead](#)
- [Orient Point](#)
- [Montauk](#)

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